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1 **Two-dimensional automatically adaptive finite element mesh genera**
Fujita, M.; Yamana, M.;
Magnetics, IEEE Transactions on , Volume: 24 , Issue: 1 , Jan. 1988
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[Abstract] [PDF Full-Text (280 KB)] **IEEE JNL**

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2 **A comparative study of an ABC and an artificial absorber for truncati 3-D finite element meshes**
Ozdemir, T.; Volakis, J.L.;
Antennas and Propagation Society International Symposium, 1994. AP-S. Digest , Volume: 1 , 20-24 June 1994
Pages:410 - 413 vol.1

[Abstract] [PDF Full-Text (116 KB)] **IEEE CNF**

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3 **A parallel run-time iterative load balancing algorithm for solution-adaptive finite element meshes on hypercubes**
Yeh-Ching Chung; Yaa-Jyun Yeh; Chia-Cheng Liu;
Parallel and Distributed Systems, 1994. International Conference on , 19-21 D 1994
Pages:210 - 215

[Abstract] [PDF Full-Text (568 KB)] **IEEE CNF**

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4 **A three dimensional computational model for evaluation of flow patt in the main pulm nary artery**
Chengfeng Zhao; Ha, B.; Zalesak, R.; Katayama, H.; Krzeski, R.; Ferreiro, J.; Lucas, C.; Henry, C.W.; Wilcox, B.R.;
Biomedical Engineering Conference, 1993., Proceedings of the Twelfth Southern , 2-4 April 1993
Pages:120 - 122

[Abstract] [PDF Full-Text (276 KB)] IEEE CNF

5 **A strategy f r finite-element mesh adaptati n in ptimisati n pr ble f inverse electr statics**
Bramanti, A.; Di Barba, P.; Savini, A.;
Computation in Electromagnetics, 2002. CEM 2002. The Fourth International Conference on (Ref. No. 2002/063) , 8-11 April 2002
Pages:2 pp.

[Abstract] [PDF Full-Text (233 KB)] IEE CNF

6 **Sensitivity analysis and automatic design of voltage ratio in an optic instrument voltage transformer**
Cui Xiang; Zhang Guoqiang;
Magnetics, IEEE Transactions on , Volume: 35 , Issue: 3 , May 1999
Pages:1769 - 1772

[Abstract] [PDF Full-Text (328 KB)] IEEE JNL

7 **Solution of inverse problems in electromagnetic NDE using finite element methods**
Yan, M.; Udpa, S.; Mandayam, S.; Sun, Y.; Sacks, P.; Lord, W.;
Magnetics, IEEE Transactions on , Volume: 34 , Issue: 5 , Sept. 1998
Pages:2924 - 2927

[Abstract] [PDF Full-Text (296 KB)] IEEE JNL

8 **A two-dimensional design and modeling of semiconductor lasers**
Osman, N.; Tsuji, Y.; Koshiba, M.;
Magnetics, IEEE Transactions on , Volume: 33 , Issue: 2 , March 1997
Pages:1532 - 1535

[Abstract] [PDF Full-Text (348 KB)] IEEE JNL

9 **Performance evaluation of MPI implementations and MPI based Para ELLPACK solvers**
Markus, S.; Kim, S.B.; Pantazopoulos, K.; Ocken, A.L.; Houstis, E.N.; Wu, P.; Weerawarana, S.; Maharry, D.;
MPI Developer's Conference, 1996. Proceedings., Second , 1-2 July 1996
Pages:162 - 169

[Abstract] [PDF Full-Text (612 KB)] IEEE CNF

10 **Load balancing of dynamic and adaptive mesh-based computati ns**
Schloegel, K.; Karypis, G.; Kumar, V.;
Reliable Distributed Systems, 1998. Proceedings. Seventeenth IEEE Symposiu on , 20-23 Oct. 1998
Pages:311

[Abstract] [PDF Full-Text (76 KB)] IEEE CNF

11 **Mesh partiti ning f r distributed systems**
Jian Chen; Taylor, V.;
High Performance Distributed Computing, 1998. Proceedings. The Seventh International Symposium on , 28-31 July 1998
Pages:292 - 300

[Abstract] [PDF Full-Text (136 KB)] IEEE CNF

12 **Evaluati n f perfectly matched layer mesh terminati ns in finite-element bi electr magnetic scattering c mputati ns**
Tang, J.; Geimer, S.D.; Paulsen, K.D.;
Microwave Theory and Techniques, IEEE Transactions on , Volume: 47 , Issue 4 , April 1999
Pages:410 - 415

[Abstract] [PDF Full-Text (256 KB)] IEEE JNL

13 **A finite-element-boundary-integral method for scattering and radia by two- and three-dimensional structures**
Jin, J.-M.; Volakis, J.L.; Collins, J.D.;
Antennas and Propagation Magazine, IEEE , Volume: 33 , Issue: 3 , June 1991
Pages:22 - 32

[Abstract] [PDF Full-Text (816 KB)] IEEE JNL

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1 **Evaluation of perfectly matched layer mesh terminations in finite-element bioelectromagnetic scattering computations**
Tang, J.; Geimer, S.D.; Paulsen, K.D.;
Microwave Theory and Techniques, IEEE Transactions on , Volume: 47 , Issue 4 , April 1999
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[Abstract] [PDF Full-Text (256 KB)] **IEEE JNL**

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2 **Solution of inverse problems in electromagnetic NDE using finite element methods**
Yan, M.; Udpa, S.; Mandayam, S.; Sun, Y.; Sacks, P.; Lord, W.;
Magnetics, IEEE Transactions on , Volume: 34 , Issue: 5 , Sept. 1998
Pages:2924 - 2927

[Abstract] [PDF Full-Text (296 KB)] **IEEE JNL**

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3 **A parallel run-time iterative load balancing algorithm for solution-adaptive finite element meshes on hypercubes**
Yeh-Ching Chung; Yaa-Jyun Yeh; Chia-Cheng Liu;
Parallel and Distributed Systems, 1994. International Conference on , 19-21 D 1994
Pages:210 - 215

[Abstract] [PDF Full-Text (568 KB)] **IEEE CNF**

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INSPEC - 1969 to date (INZZ)

Accession number & update
4336366, C9303-7400-011; 930128.

Title
An adaptive **finite element** analysis system for 3-D solids.

Author(s)
Hung-K-Y; Tan-S-T; Yuen-M-M-F; Ed. by Ko-N-W-M; Tan-S-T.

Author affiliation
Dept of Mech Eng, Hong Kong Univ, Hong Kong.

Source
Proceedings of the International Conference on Manufacturing Automation, Hong Kong, 10-12 Aug. 1992, p.571-5.
Sponsors: ASM, British Council, Cathay Pacific, Motorola, SME, SPIE, Univ. Hong Kong, et al.
Published: Univ. Hong Kong, Hong Kong, 1992, xix+913+suppl. pp.

Publication year
1992.

Language
EN.

Publication type
CPP Conference Paper.

Treatment codes
P Practical.

Abstract
An adaptive **finite element** analysis system for 3D solids is presented. The system consists of a solid modeller, a **mesh** generator, a **finite element** analysis processor and an error **evaluator.** Starting with a CSG solid model and given the loads, boundary conditions and the initial nodal density distribution, **finite element mesh** is generated using a point-based two stage hierarchical **finite element mesh** generation algorithm. Analysis is conducted using a general **finite element** analysis package. Error estimate is calculated for each **element** after the analysis and the result is used to generate a new **mesh** with higher **mesh** density in regions where the estimated error is high. The procedure is repeated until the error estimate calculated falls within prescribed criteria. (8 refs).

Descriptors
adaptive-systems; finite-element-analysis; solid-modelling.

Keyw rds
adaptive **finite element** analysis system; 3D solids; solid modeller; **mesh** generator; **finite element** analysis processor; error **evaluat r;** CSG solid model; boundary conditions; initial nodal density distribution; **finite element mesh;** point based two stage hierarchical **finite element mesh** generation algorithm; general **finite element** analysis package; estimated error.

Classificati n codes
C7400 (Engineering).

Titles

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Accession number & update
4926108, C9505-7310-030; 950420.

Title
Intelligent **finite element mesh** generation.

Author(s)
Kang-E; Haghighi-K.

Author affiliation
Dept of Agric Eng, Purdue Univ, West Lafayette, IN, USA.

S urce
Engineering-with-Computers (USA), vol.11, no.2, p.70-82, 1995.

CODEN
ENGCE7.

ISSN
ISSN: 0177-0667, CCCC: 0177-0667/95/ ($2.00+0.20).

Publication year
1995.

Language
EN.

Publication type
J Journal Paper.

Treatment codes
A Application; P Practical; T Theoretical or Mathematical.

Abstract
A knowledge-based and automatic **finite element mesh** generator (INTELMESH) for two-dimensional linear elasticity problems is presented. Unlike other approaches, the proposed technique incorporates the information about the object geometry as well as the boundary and loading conditions to generate an a priori **finite element mesh** which is more refined around the critical regions of the problem domain. INTELMESH uses a blackboard architecture expert system and the new concept of substracting to locate the critical regions in the domain and to assign priority and **mesh** size to them. This involves the decomposition of the original structure into substructures (or primitives) for which an initial and approximate analysis can be performed by using analytical solutions and heuristics. It then uses the concept of wave propagation to generate graded nodes in the whole domain with proper density distribution. INTELMESH is fully automatic and allows the user to define the problem domain with minimum amount of input such as object geometry and boundary and loading conditions. Once nodes have been generated for the entire domain, they are automatically connected to form well-shaped triangular elements ensuring the Delaunay **pr perty.** Several examples are presented and discussed. (24 refs).

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INSPEC - 1969 to date (INZZ)

Accession number & update
6925036, C2001-06-4260-032; 20010521.

Title
Curvature-dependent triangulation of implicit surfaces.

Author(s)
Karkanis-T; Stewart-A-J.

Author affiliation
Toronto Univ, Ont, Canada.

S urce
IEEE-Computer-Graphics-and-Applications (USA), vol.21, no.2, p.60-9, March-April 2001. , Published: IEEE.

CODEN
ICGADZ.

ISSN
ISSN: 0272-1716, CCCC: 0272-1716/2001/ ($10.00).

Availability
SICI: 0272-1716(200103/04)21:2L.60:CDTI; 1-T.

Publication year
2001.

Language
EN.

Publication type
J Journal Paper.

Treatment codes
P Practical; T Theoretical or Mathematical.

Abstract
Implicit surfaces appear in many applications, including medical imaging, molecular modeling, computer aided design, computer graphics and **finite element** analysis. Despite their many advantages, implicit surfaces are difficult to render efficiently. Today's real-time graphics systems are heavily optimized for rendering triangles, so an implicit surface should be converted to a **mesh** of triangles before rendering. Our algorithm polyonalizes an implicit surface. The algorithm generates a **mesh** of close-to-equilateral triangles with sizes dependent on the local surface curvature. We assume that the implicit surface is connected and G/sup 1/ is smooth (that is, the tangent plane varies continuously over the surface). The algorithm requires an **evaluat r** for the implicit function defined at all points in space, an **evaluat r** for the function gradient defined at points near the surface, and a bounding box around the surface. The output of the algorithm is good for applications requiring a well-behaved triangulation, such as rendering systems and **finite element** partial differential equation

(PDE) solvers. (5 refs).

Descript rs

computational-geometry; mesh-generation; rendering-computer-graphics; surface-fitting.

Keyw rds

curvature dependent triangulation; implicit surfaces; medical imaging; molecular modeling; computer aided design; computer graphics; **finite element** analysis; rendering; real time graphics; **mesh** generation; local surface curvature; partial differential equation.

Classification codes

C4260 (Computational geometry).
C6130B (Graphics techniques).
C4130 (Interpolation and function approximation (numerical analysis)).

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1 Poster Session: Deformation of finite element meshes using directly manipulated free-form deformation

Norbert Frisch, Thomas Ertl

June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Full text available: pdf(704.19 KB) Additional Information: full citation, abstract, references, citings, index terms

CrashViewer [5, 18] is a tool for visualizing car crash simulation input and output data consisting of nite element meshes. For a shorter work ow, a feature for local deformation of the car components represented by FE meshes is desired. This feature allows to quickly make minor corrections and enhancements directly on the FE mesh. The roundtrip through the CAD department and the remeshing of the CAD representation is avoided. The crash simulation can be started immediately with the modified car ...

Keywords: CAD, free-form deformation, nite elements

2 Production ready feature recognition based automatic group technology part coding

Arlo L. Ames

May 1991 **Proceedings of the first ACM symposium on Solid modeling foundations and CAD/CAM applications**

Full text available: pdf(907.02 KB) Additional Information: full citation, references, citings, index terms

3 Towards efficient partial evaluation

Karoline Malmkjær

August 1993 **Proceedings of the 1993 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, citings, index terms

In general, a partial evaluator needs to keep track of the tasks that have already been completed or initiated, so that it can recognize when to stop unfolding. In the MIX-style polyvariant specialization algorithm, this is accomplished by a global log. This is a very general technique, so it is not surprising that the algorithm is not particularly efficient. In many special cases a simpler technique would suffice. In this paper, we identify some classes of such special cases by ...

4 The family of concurrent logic programming languages

Ehud Shapiro
September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available: pdf(9.62 MB) Additional Information: full citation, abstract, references, citings, index terms

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

5 A new 3D adaptive finite element scheme with 1-irregular hexahedral element meshes
Don Morton, John M. Tyler
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(676.98 KB) Additional Information: full citation, references, index terms

Keywords: adaptive mesh, finite elements, hexahedral mesh

6 On a Data Structure for Adaptive Finite Element Mesh Refinements
Werner C. Rheinboldt, Charles K. Mesztenyi
June 1980 **ACM Transactions on Mathematical Software (TOMS)**, Volume 6 Issue 2

Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

7 Automatic finite-element mesh generation from geometric models—A point-based approach
Y. T. Lee, A. Pennington, N. K. Shaw
October 1984 **ACM Transactions on Graphics (TOG)**, Volume 3 Issue 4

Full text available: pdf(994.11 KB) Additional Information: full citation, references, citings, index terms

8 Finite element mesh generation employing satellite graphics
Sze-Keung Lee, Walter S. Reed
June 1976 **Proceedings of the 13th conference on Design automation**

Full text available: pdf(496.59 KB) Additional Information: full citation, abstract, references, index terms

The use of a satellite graphics system is presented as an approach to preprocessing finite element analysis data. The paper discusses the use of curved isoparametric shape functions as the basis of finite element mesh generation and the effects this approach has on the design of a system to support these activities. A minicomputer based design system is presented and its application to a practical three dimensional mesh generation problem is demonstrated.

9 Technical reports
SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

10 The multilevel finite element method for adaptive mesh optimization and visualization of volume data

Roberto Grosso, Christoph Lürig, Thomas Ertl
October 1997 **Proceedings of the 8th conference n Visualization '97**

Full text available: pdf(1.24 MB) Additional Information: full citation, references, citings, index terms
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11 A knowledge system for automatic finite element mesh generation: AMEKS
L. R. Phillips, J. L. Mitchiner, T. D. Blacker, Y. T. Lin
June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**
Full text available: pdf(817.46 KB) Additional Information: full citation, references, citings, index terms

12 Session 10A: power analysis and optimization: Fast analysis and optimization of power/ground networks
Haihua Su, Kaushik Gala, Sachin S. Sapatnekar
November 2000 **Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design**
Full text available: pdf(567.71 KB) Additional Information: full citation, abstract, references, citings

This paper presents an efficient method for optimizing power/ground (P/G) networks. It proposes a structured skeleton that is intermediate to the conventional method that uses full meshes (which are hard to analyze efficiently), and tree-structured P/G networks (which provide poor performance). As an example, we consider a P/G network structure modeled as an overlying mesh with underlying trees originating from the mesh, which eases the task of analysis with acceptable performance sacrifices. A ...

13 Finite element mesh generation for planar and shell type structures
James C. Cavendish, James A. Wixom
December 1975 **Proceedings of the SIGNUM meeting on Software for partial differential equations**
Full text available: pdf(196.61 KB) Additional Information: full citation, abstract, references, index terms

In many cases, the overriding difficulty associated with finite element analyses of complex structures is the generation of error-free finite element meshes. In view of this situation, a number of mesh generation schemes for planar (e.g., [1], [2]) and shell (e.g., [3], [4]) structures have recently been proposed (see [5] for an extensive bibliography). At one extreme are the fully automatic methods in which the computer is used to determine regions of high and low element densities and the ...

14 Session C3: mesh and flow visualization: Case study: visual debugging of finite element codes
Patricia Crossno, David H. Rogers, Christopher J. Garasi
October 2002 **Proceedings of the conference on Visualization '02**
Full text available: pdf(313.25 KB) Additional Information: full citation, abstract, references, index terms

We present an innovative application developed at Sandia National Laboratories for visual debugging of unstructured finite element physics codes. Our tool automatically locates anomalous regions, such as inverted elements or nodes whose variable values lie outside a prescribed range, then extracts mesh subsets around these features for detailed examination. The subsets are viewed using color coding of variable values superimposed on the mesh structure. This allows the values and their relative s ...

Keywords: parallel finite element codes and simulations, visual debugging

15 Design of an Adaptive, Parallel Finite-Element System
Pamela Zave, Werner C. Rheinboldt
March 1979 **ACM Transactions on Mathematical Software (TOMS)**, Volume 5 Issue 1
Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

16 Design and data structure of fully adaptive, multigrid, finite-element software
Maria-Cecilia Rivara
August 1984 **ACM Transactions on Mathematical Software (TOMS)**, Volume 10 Issue 3
Full text available: pdf(1.40 MB) Additional Information: full citation, references, citings, index terms, review

17 A vectorized 3-D finite element model for transient simulation of two-phase heat transport with phase transformation and a moving interface
Mark Christon
November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**
Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references

The implementation of a fully vectorized 3-D finite element model on the CRAY X-MP/Y-MP architecture is presented. Issues involved in vectorizing the computationally intensive modules of the finite element model are discussed. Fully vectorized numerical integration coupled with a preconditioned conjugate gradient linear system solver results in an application performance of 140 MFLOPS with the linear system solver achieving 162 MFLOPS (Y-MP single processor). The vector/scalar speedup for the fi ...

18 Parallel multigrid solver for 3D unstructured finite element problems
Mark Adams, James W. Demmel
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**
Full text available: pdf(803.64 KB) Additional Information: full citation, references, citings, index terms

Keywords: parallel maximal independent sets, parallel sparse solvers, unstructured multigrid

19 Anatomy-based facial tissue modeling using the finite element method
Erwin Keeve, Sabine Girod, Paula Pfeifle, Bernd Girod
October 1996 **Proceedings of the 7th conference on Visualization '96**
Full text available: pdf(9.01 MB) Publisher Site Additional Information: full citation, references, citings, index terms

Keywords: computer-aided surgery, finite element method, human facial modeling, surgery planning and simulation

20 A computer architecture for dynamic finite element analysis
L. M. Napolitano
June 1986 **ACM SIGARCH Computer Architecture News , Proceedings of the 13th annual internati nal symposium n Computer architecture**, Volume 14 Issue 2
Full text available: pdf(910.76 KB) Additional Information: full citation, abstract, references, index terms

The explicit finite element method for dynamic structural analysis can be expressed in a

highly parallel form. A proposed architecture is described that addresses the fundamental algorithmic issues of the method. An approximation equation for the efficiency is given as a function of processing time for a single element, the fundamental interprocessor communication time, the number of processors, and the number of finite elements. The predicted speedups are plotted against postulated paralle ...

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

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DATE: Monday, December 13, 2004

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☐	L3	L2 and n-dimensional	10
☐	L2	mesh and simplices	37
☐	L1	finite element mesh and evaluator	1

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20020032494 A1

Using default format because multiple data bases are involved.

L1: Entry 1 of 1 File: PGPB, Mar 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020032494
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020032494 A1

TITLE: Feature modeling in a finite element model

PUBLICATION-DATE: March 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kennon, Stephen R.	Austin	TX	US	
Ward, Steven B.	Austin	TX	US	

US-CL-CURRENT: 700/98; 700/29, 700/30

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
FINITE	97480
FINITES	14
ELEMENT	1188436
ELEMENTS	1559131
MESH	249614
MESHES	50823
EVALUATOR	4424
EVALUATORS	1046
(EVALUATOR AND (FINITE ADJ ELEMENT ADJ MESH)).PGPB,USPT.	1
(FINITE ELEMENT MESH AND EVALUATOR).PGPB,USPT.	1

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☐ 1. Document ID: US 20040075656 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 10 File: PGPB Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040075656
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040075656 A1

TITLE: Method and apparatus for multi-dimensional shape representation via shock flows

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kimia, Benjamin B.	Providence	RI	US	
Fol-Leymarie, Frederic	Laval	NJ	CA	
Tek, Huseyin	Princeton		US	

US-CL-CURRENT: 345/420

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20040034514 A1

L3: Entry 2 of 10 File: PGPB Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040034514
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040034514 A1

TITLE: Method for assembling the finite element discretization of arbitrary weak equations involving local or non-local multiphysics couplings

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Langemyr, Lars	Stockholm	MA	SE	
Bertilsson, Daniel	Sollentuna		SE	
Nordmark, Arne	Stockholm		SE	
Persson, Per-Olof	Cambridge		US	
Long, Jerome	Middx		GB	

US-CL-CURRENT: 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 3. Document ID: US 20020072883 A1

L3: Entry 3 of 10 File: PGPB Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072883
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020072883 A1

TITLE: Method and system for high-resolution modeling of a well bore in a hydrocarbon reservoir

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lim, Kok-Thye	San Ramone	CA	US	
Ward, Steven B.	Austin	TX	US	
Kennon, Stephen R.	Austin	TX	US	

US-CL-CURRENT: 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 4. Document ID: US 20020050993 A1

L3: Entry 4 of 10 File: PGPB May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020050993
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020050993 A1

TITLE: Method and system for modeling geological structures using an unstructured four-dimensional mesh

PUBLICATION-DATE: May 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kennon, Stephen R.	Austin	TX	US	
Canann, Scott A.	Austin	TX	US	
Ward, Steven B.	Austin	TX	US	

US-CL-CURRENT: 345/423

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 5. Document ID: US 20020035453 A1

L3: Entry 5 of 10 File: PGPB Mar 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020035453
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020035453 A1

TITLE: Method for solving finite element models using time slabbing

PUBLICATION-DATE: March 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pond, Stuart W. JR.	Cincinnati	OH	US	
Barragy, Edward J.	Austin	TX	US	

US-CL-CURRENT: 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 6. Document ID: US 20020032550 A1

L3: Entry 6 of 10 File: PGPB Mar 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020032550
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020032550 A1

TITLE: Method for modeling an arbitrary well path in a hydrocarbon reservoir using adaptive meshing

PUBLICATION-DATE: March 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ward, Steven B.	Austin	TX	US	
Kennon, Stephen R.	Austin	TX	US	

US-CL-CURRENT: 703/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 7. Document ID: US 20020032494 A1

L3: Entry 7 of 10 File: PGPB Mar 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020032494
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020032494 A1

TITLE: Feature modeling in a finite element model

PUBLICATION-DATE: March 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kennon, Stephen R.	Austin	TX	US	
Ward, Steven B.	Austin	TX	US	

US-CL-CURRENT: 700/98; 700/29, 700/30

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 8. Document ID: US 6674432 B2

L3: Entry 8 of 10 File: USPT Jan 6, 2004

US-PAT-NO: 6674432
DOCUMENT-IDENTIFIER: US 6674432 B2

TITLE: Method and system for modeling geological structures using an unstructured four-dimensional mesh

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kennon; Stephen R.	Austin	TX		
Canann; Scott A.	Austin	TX		
Ward; Steven B.	Austin	TX		

US-CL-CURRENT: 345/419; 345/420

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 9. Document ID: US 6313837 B1

L3: Entry 9 of 10 File: USPT Nov 6, 2001

US-PAT-NO: 6313837
DOCUMENT-IDENTIFIER: US 6313837 B1
**** See image for Certificate of Correction ****

TITLE: Modeling at more than one level of resolution

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Assa; Steven Brent	Storeys Way			GB
Hammersley; Richard Paul	Austin	TX		
Lu; Hong-Qian	Austin	TX		

US-CL-CURRENT: 345/420; 345/428

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 10. Document ID: US 6100893 A

L3: Entry 10 of 10 File: USPT Aug 8, 2000

US-PAT-NO: 6100893
DOCUMENT-IDENTIFIER: US 6100893 A
**** See image for Certificate of Correction ****

TITLE: Constructing solid models using implicit functions defining connectivity relationships among layers of an object to be modeled

DATE-ISSUED: August 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ensz; Mark T.	Albuquerque	NM		
Ganter; Mark A.	Edmonds	WA		
Lim; Chek T.	Seattle	WA		
Storti; Duane W.	Seattle	WA		
Turkiyyah; George M.	Seattle	WA		

US-CL-CURRENT: 345/420; 345/441

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

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Term	Documents
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N-DIMENSIONALS	0
(2 AND N-DIMENSIONAL).PGPB,USPT.	10
(L2 AND N-DIMENSIONAL).PGPB,USPT.	10

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